

# SEQUENCE LISTING

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 Mary Haak-Frendscho  
 Ling Chen  
 Yen-Wah R. Lee  
 Meina Liang  
 Xiao Feng  
 Xiao-Chi Jia  
 Mark R. Nocerini

<120> ANTIBODIES DIRECTED TO PHOSPHOLIPASE A2  
 AND USES THEREOF

<130> ABGENIX.072A

<140> Unknown

<141> 2003-12-01

<150> n/a

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<170> FastSEQ for Windows Version 4.0

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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Ala Ser Arg Ile Leu Arg Val His Arg Arg Gly Ile Leu Glu Leu Ala  
35 40 45  
Gly Thr Val Gly Cys Val Gly Pro Arg Thr Pro Ile Ala Tyr Met Lys  
50 55 60  
Tyr Gly Cys Phe Cys Gly Leu Gly Gly His Gly Gln Pro Arg Asp Ala  
65 70 75 80  
Ile Asp Trp Cys Cys His Gly His Asp Cys Cys Tyr Thr Arg Ala Glu  
85 90 95  
Glu Ala Gly Cys Ser Pro Lys Thr Glu Arg Tyr Ser Trp Gln Cys Val  
100 105 110  
Asn Gln Ser Val Leu Cys Gly Pro Ala Glu Asn Lys Cys Gln Glu Leu  
115 120 125  
Leu Cys Lys Cys Asp Gln Glu Ile Ala Asn Cys Leu Ala Gln Thr Glu  
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Ser Pro Lys Cys Asp  
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<210> 3  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 3  
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20 25 30  
Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
35 40 45  
Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
50 55 60  
Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
65 70 75 80  
Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
85 90 95  
Ala Arg His Trp Ser Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr  
100 105 110  
Val Thr Val Ser Ser Ala  
115

<210> 4  
<211> 109  
<212> PRT  
<213> Homo sapiens

<400> 4  
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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Arg Ser Gly  
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 Tyr Leu Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Phe Leu  
                   35                  40                  45  
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
                   50                  55                  60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu  
 65                  70                  75                  80  
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro  
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<210> 5

<211> 118

<212> PRT

<213> Homo sapiens

<400> 5

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                   20                  25                  30  
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
                   35                  40                  45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
                   50                  55                  60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
 65                  70                  75                  80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
                   85                  90                  95  
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 Val Thr Val Ser Ser Ala  
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<210> 6

<211> 109

<212> PRT

<213> Homo sapiens

<400> 6

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly  
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                   20                  25                  30  
 Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
                   35                  40                  45  
 Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
                   50                  55                  60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Val Ser Arg Leu Glu  
 65                  70                  75                  80  
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro  
                   85                  90                  95  
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105

<210> 7  
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 <213> Homo sapiens

<400> 7  
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 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Ile Thr Ser Tyr  
 20 25 30  
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
 50 55 60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
 65 70 75 80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95  
 Ala Arg His Ser Gly Ser Ser Phe Asp Tyr Trp Gly Gln Gly Thr Leu  
 100 105 110  
 Val Thr Val Ser Ser Ala  
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<210> 8  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 8  
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 1 5 10 15  
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser  
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 Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser  
 35 40 45  
 Pro Gln Leu Leu Ile Tyr Leu Gly Ser Tyr Arg Ala Ser Gly Val Pro  
 50 55 60  
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile  
 65 70 75 80  
 Ser Arg Val Glu Ala Glu Asp Ala Gly Val Tyr Phe Cys Met Gln Gly  
 85 90 95  
 Leu Lys Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg  
 100 105 110

<210> 9  
 <211> 117  
 <212> PRT  
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<400> 9  
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Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Asn Tyr  
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 Trp Ile Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
                   35                  40                  45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
                   50                  55                  60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
                   65                  70                  75                  80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
                   85                  90                  95  
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 Thr Val Ser Ser Ala  
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<210> 10  
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 <213> Homo sapiens

<400> 10  
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                   20                  25                  30  
 Leu Asp Trp Cys Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile  
                   35                  40                  45  
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
                   50                  55                  60  
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
                   65                  70                  75                  80  
 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Asn Tyr Pro Pro  
                   85                  90                  95  
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                   100                  105

<210> 11  
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 <212> PRT  
 <213> Homo sapiens

<400> 11  
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                   20                  25                  30  
 Trp Ile Ser Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
                   35                  40                  45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
                   50                  55                  60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
                   65                  70                  75                  80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
                   85                  90                  95  
 Ala Arg His Arg Glu Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val



<400> 14

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20 25 30  
Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
35 40 45  
Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
50 55 60  
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu  
65 70 75 80  
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro  
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Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg  
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<210> 15

<211> 118

<212> PRT

<213> Homo sapiens

<400> 15

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20 25 30  
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35 40 45  
Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
50 55 60  
Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
65 70 75 80  
Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Ile Tyr Tyr Cys  
85 90 95  
Ala Arg Gly Gly Val Gly Ala Phe Asp Ile Trp Gly Gln Gly Thr Met  
100 105 110  
Val Thr Val Ser Ser Ala  
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<210> 16

<211> 110

<212> PRT

<213> Homo sapiens

<400> 16

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20 25 30  
Ser Leu Ala Trp Tyr Gln Glu Lys Pro Gly Gln Ala Pro Arg Leu Leu  
35 40 45  
Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
50 55 60  
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu

65					70					75					80
Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Gly	Ser	Ser	Pro
				85					90					95	
Pro	Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg		
			100					105					110		

<210> 17  
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 <212> PRT  
 <213> Homo sapiens

<400> 17															
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			20					25					30		
Trp	Ile	Asn	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70				75					80	
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
				85					90				95		
Ala	Arg	Ser	Thr	Ser	Ser	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr	Met
			100					105					110		
Val	Thr	Val	Ser	Ser	Ala										
															115

<210> 18  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 18															
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Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Arg	Tyr
			20					25					30		
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35					40					45			
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70				75					80	
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser	Thr	Pro	Pro
				85					90					95	
Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg				
			100					105							

<210> 19  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens



<400> 19

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu  
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20 25 30  
Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
35 40 45  
Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
50 55 60  
Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
65 70 75 80  
Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
85 90 95  
Ala Leu Thr Gly Thr Arg Ala Phe Glu Ile Trp Gly Gln Gly Thr Met  
100 105 110  
Val Thr Val Ser Ser Ala  
115

<210> 20

<211> 111

<212> PRT

<213> Homo sapiens

<400> 20

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
1 5 10 15  
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Tyr  
20 25 30  
Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Pro Gly Lys Gly Pro Lys  
35 40 45  
Leu Leu Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg  
50 55 60  
Phe Ser Gly Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Arg Ser  
65 70 75 80  
Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Asn  
85 90 95  
Thr Pro Pro Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg  
100 105 110

<210> 21

<211> 119

<212> PRT

<213> Homo sapiens

<400> 21

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30  
Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45  
Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val  
50 55 60  
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65					70					75				80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr Cys
				85					90					95
Ala	Arg	Arg	Asp	Trp	Asn	Tyr	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly Thr
			100					105					110	
Met	Val	Thr	Val	Ser	Ser	Ala								
			115											

<210> 22  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 22														
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val Gly
1				5					10					15
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Asn Tyr
			20					25				30		
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Phe	Leu Ile
	35					40					45			
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Ala	Pro	Ser	Arg	Phe	Ser Gly
	50				55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln Pro
65				70				75						80
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser	Thr	Pro Ile
			85					90					95	
Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys	Arg			
			100				105							

<210> 23  
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 <212> PRT  
 <213> Homo sapiens

<400> 23														
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly Arg
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Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser Tyr
			20					25				30		
Gly	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp Val
	35					40					45			
Ala	Ala	Ile	Trp	Tyr	Asp	Gly	Ser	Asn	Lys	Trp	Tyr	Ala	Asp	Ser Val
	50				55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu Tyr
65				70				75						80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr Cys
			85					90					95	
Ala	Arg	Gly	Gly	Thr	Gly	Thr	Pro	Gly	Ala	Phe	Asp	Ile	Trp	Gly Gln
			100				105						110	
Gly	Thr	Met	Val	Thr	Val	Ser	Ser	Ala						
			115				120							

<210> 24  
 <211> 112

<212> PRT  
 <213> Homo sapiens

<400> 24

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Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1           5           10           15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
          20           25           30
Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
          35           40           45
Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
          50           55           60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65           70           75           80
Ser Arg Met Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
          85           90           95
Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
          100          105          110

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<210> 25  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 25

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Gln Val Gln Leu Glu Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1           5           10           15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
          20           25           30
Gly Met His Trp Val Arg Gln Gly Pro Gly Lys Gly Leu Glu Trp Val
          35           40           45
Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Lys Tyr Ala Asp Ser Val
          50           55           60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65           70           75           80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
          85           90           95
Ala Arg Asp Gly Pro Ile Phe Gly Val Val Met Gly Tyr Trp Gly Gln
          100          105          110
Gly Thr Leu Val Thr Val Ser Ser Ala
          115          120

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<210> 26  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 26

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1           5           10           15
Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Ser Ile Ser Asn Tyr
          20           25           30
Leu Asn Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Ile Leu Leu Ile
          35           40           45
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly

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50		55		60	
Ser Gly Ser Gly Thr	Asp Phe Thr Leu Thr	Ile Ser Ser Leu Gln Pro			
65	70	75	80		
Glu Asp Phe Ala Thr	Tyr Tyr Cys His Gln Ser Tyr Ser	Ile Pro Ile			
	85	90	95		
Thr Phe Gly Gln Gly	Thr Arg Leu Glu Ile Lys Arg				
	100	105			

<210> 27  
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 <212> PRT  
 <213> Homo sapiens

<400> 27	
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu	
1	15
Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Ile Ser Tyr	
	20
Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met	
	25
Gly Ile Ile Tyr Pro Gly Asp Ser Asp Ala Arg Tyr Ser Pro Ser Phe	
	30
Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr	
	35
65	40
Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys	
	45
Ala Arg Thr Thr Ser Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met	
	50
Val Thr Val Ser Ser Ala	
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	70
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	80
	85
	90
	95
	100
	105
	110
	115

<210> 28  
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 <212> PRT  
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<400> 28	
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly	
1	15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr	
	20
Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile	
	25
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly	
	30
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro	
	35
65	40
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Asn Thr Pro Pro	
	45
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg	
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	105

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 1 5 10 15  
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ile Tyr  
 20 25 30  
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
 50 55 60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Gln Ser Ile Ser Thr Ala Tyr  
 65 70 75 80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95  
 Ala Arg His Asp Ser Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr  
 100 105 110  
 Val Thr Val Ser Ser Ala  
 115

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<220>  
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 <222> 102  
 <223> Xaa = Any Amino Acid

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 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr  
 20 25 30  
 Trp Ile Gly Trp Leu Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
 50 55 60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
 65 70 75 80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95  
 Ala Arg Ser Thr Ser Xaa Ala Phe Asp Ile Trp Gly Gln Gly Thr Met  
 100 105 110  
 Val Thr Val Ser Ser Ala  
 115

<210> 31  
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<400> 31

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu  
 1 5 10 15  
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr  
 20 25 30  
 Trp Ile Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
 50 55 60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
 65 70 75 80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95  
 Ala Arg His Val Arg Ser Pro Phe Asp Tyr Trp Gly Gln Gly Thr Leu  
 100 105 110  
 Val Thr Val Ser Ser Ala  
 115

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 caggtgcagc tggagcagtc ngg 23

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<400> 33  
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<400> 34  
 cacaccgcgg tcacatggc 19

<210> 35  
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 <212> DNA  
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<400> 35  
 ctactctagg gcacctgtcc 20

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gtatagcggt ggctgg	16
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atagcagcag ctggt	15
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tcctttttaa	10
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ggatacagct atggt	15
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cagtggctgg tac	13
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ctggaactac	10
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ggatacagct atggt

15

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<400> 51  
Gly Phe Thr Phe Ser Ser Tyr Ala Met Asn  
1 5 10

<210> 52  
<211> 17  
<212> PRT  
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<400> 52  
Phe Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 53  
<211> 9  
<212> PRT  
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<400> 53  
Lys Gly Asp Trp Asn Tyr Glu Asp Tyr  
1 5

<210> 54  
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<400> 54  
Gly Tyr Ser Phe Thr Ser Tyr Trp Ile Gly  
1 5 10

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<400> 55  
Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Gln  
1 5 10 15  
Gly

<210> 56  
<211> 8  
<212> PRT  
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<400> 56  
Leu Gly Pro Thr Pro Phe Asp Tyr  
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<212> PRT  
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<400> 57  
Gly Tyr Thr Phe Thr Asp Tyr Tyr Ile His  
1 5 10

<210> 58  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 58  
Trp Ile His Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe Gln  
1 5 10 15  
Gly

<210> 59  
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<212> PRT  
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<400> 59  
Asp Arg Asp Thr Ala Met Val Phe Tyr Tyr Tyr Tyr Tyr Ala Met Asp  
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Val

<210> 60  
<211> 12  
<212> PRT  
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<400> 60  
Gly Asp Ser Val Ser Ser Asn Ser Ala Ala Trp Asn  
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<210> 61  
<211> 18

<212> PRT  
<213> Homo sapiens

<400> 61  
Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala Val Ser Val  
1 5 10 15  
Lys Ser

<210> 62  
<211> 16  
<212> PRT  
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<400> 62  
Gly Glu Tyr Ser Gly Gly Trp Asn Phe Tyr Tyr Tyr Gly Met Asp Val  
1 5 10 15

<210> 63  
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<400> 63  
Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser  
1 5 10

<210> 64  
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<212> PRT  
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<400> 64  
Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 65  
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<212> PRT  
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<400> 65  
Glu Gly Val Thr Thr Ile Phe Tyr Trp Tyr Phe Asp Leu  
1 5 10

<210> 66  
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<400> 66  
 Gly Gly Ser Ile Ser Ser Gly Gly Tyr Tyr Trp Ser  
 1 5 10

<210> 67  
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<400> 67  
 Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys Ser  
 1 5 10 15

<210> 68  
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<400> 68  
 Glu Val Ile Val Ala Arg Pro Trp Phe Asp Pro  
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<210> 69  
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<400> 69  
 Gly Phe Thr Phe Ser Ile Tyr Gly Met His  
 1 5 10

<210> 70  
 <211> 17  
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<400> 70  
 Ile Ile Ser Tyr Gly Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys  
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 Gly

<210> 71  
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<400> 71  
 Glu Ile Ala Ala Ala Gly Ser Ser Gly Met Asp Val  
 1 5 10

<210> 72  
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<212> PRT  
<213> Homo sapiens

<400> 72  
Gly Tyr Ser Phe Thr Ser Tyr Trp Ile Gly  
1 5 10

<210> 73  
<211> 17  
<212> PRT  
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<400> 73  
Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Gln  
1 5 10 15  
Gly

<210> 74  
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<212> PRT  
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<400> 74  
Pro Pro Pro Gly Ile Ala Val Pro Phe Lys Asp Tyr  
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<210> 75  
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<212> PRT  
<213> Homo sapiens

<400> 75  
Gly Phe Thr Phe Ser Ser Tyr Gly Met His  
1 5 10

<210> 76  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 76  
Ile Ile Trp Tyr Asp Gly Ser Tyr Arg Phe Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 77  
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<212> PRT

<213> Homo sapiens

<400> 77

Arg Gly Phe Asp Tyr  
1 5

<210> 78

<211> 10

<212> PRT

<213> Homo sapiens

<400> 78

Gly Phe Thr Phe Ser Ser Tyr Ser Met Asn  
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<210> 79

<211> 17

<212> PRT

<213> Homo sapiens

<400> 79

Tyr Ile Ser Ser Gly Ser Ser Thr Ile Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 80

<211> 17

<212> PRT

<213> Homo sapiens

<400> 80

Glu Gly Leu Glu Leu Arg Arg Gly Tyr Tyr Tyr Tyr Tyr Gly Met Asp  
1 5 10 15  
Val

<210> 81

<211> 10

<212> PRT

<213> Homo sapiens

<400> 81

Gly Tyr Thr Phe Thr Gly Tyr Tyr Met His  
1 5 10

<210> 82

<211> 17

<212> PRT

<213> Homo sapiens

<400> 82

Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe Gln  
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 Gly

<210> 83  
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<400> 83  
 Asp Arg Asp Thr Ala Met Val Phe Tyr Tyr Tyr Tyr Tyr Ala Leu Asp  
 1 5 10 15  
 Val

<210> 84  
 <211> 10  
 <212> PRT  
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<400> 84  
 Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser  
 1 5 10

<210> 85  
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 <212> PRT  
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<400> 85  
 Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 86  
 <211> 13  
 <212> PRT  
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<400> 86  
 Glu Gly Val Thr Thr Ile Phe Tyr Trp Tyr Phe Asp Leu  
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<210> 87  
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 <212> PRT  
 <213> Homo sapiens

<400> 87  
 Gly Tyr Ser Phe Thr Ser Tyr Trp Ile Gly

1 5 10

<210> 88  
 <211> 17  
 <212> PRT  
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<400> 88  
 Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Gln  
 1 5 10 15  
 Gly

<210> 89  
 <211> 7  
 <212> PRT  
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<400> 89  
 Gln Arg Arg Gly Phe Asp Tyr  
 1 5

<210> 90  
 <211> 10  
 <212> PRT  
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<400> 90  
 Gly Tyr Ser Phe Thr Ser Tyr Trp Ile Ala  
 1 5 10

<210> 91  
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<400> 91  
 Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Gln  
 1 5 10 15  
 Gly

<210> 92  
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 <212> PRT  
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<400> 92  
 Gly Arg Gly Gly Phe Asp Tyr  
 1 5



<210> 93  
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Gly Phe Thr Phe Ser Thr Tyr Gly Met His  
1 5 10

<210> 94  
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<400> 94  
Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys  
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Gly

<210> 95  
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<212> PRT  
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<400> 95  
Ala Val Ala Gly Thr Gly Ala Phe Asp Ile  
1 5 10

<210> 96  
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<400> 96  
Gly Phe Thr Phe Ser Ser Tyr Ser Met Asn  
1 5 10

<210> 97  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 97  
Tyr Ile Ser Ser Gly Ser Ser Thr Ile Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 98  
<211> 17  
<212> PRT

<213> Homo sapiens

<400> 98

Glu	Gly	Leu	Glu	Leu	Arg	Arg	Gly	Tyr	Tyr	Tyr	Tyr	Tyr	Gly	Met	Asp
1				5				10						15	

Val

<210> 99

<211> 12

<212> PRT

<213> Homo sapiens

<400> 99

Gly	Gly	Ser	Ile	Ser	Arg	Ser	Ser	Tyr	Tyr	Trp	Gly
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<210> 100

<211> 16

<212> PRT

<213> Homo sapiens

<400> 100

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1				5				10						15	

<210> 101

<211> 10

<212> PRT

<213> Homo sapiens

<400> 101

Gly	Phe	Thr	Phe	Ser	Asn	Tyr	Gly	Ile	His
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<210> 102

<211> 17

<212> PRT

<213> Homo sapiens

<400> 102

Val	Ile	Trp	Tyr	Asp	Gly	Ser	Tyr	Lys	Phe	Tyr	Ala	Asp	Ser	Val	Lys
1				5				10						15	

Gly

<210> 103

<211> 5

<212> PRT

<213> Homo sapiens

<400> 103

Arg Gly Phe Asp Ser  
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<210> 104  
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<212> PRT  
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<400> 104  
Gly Phe Thr Phe Ser Ser Tyr Gly Met His  
1 5 10

<210> 105  
<211> 17  
<212> PRT  
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<400> 105  
Ala Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 106  
<211> 11  
<212> PRT  
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<400> 106  
Gly Gly Thr Gly Thr Pro Gly Ala Phe Asp Ile  
1 5 10

<210> 107  
<211> 10  
<212> PRT  
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<400> 107  
Gly Phe Ile Phe Ser Asn Ala Trp Met Ser  
1 5 10

<210> 108  
<211> 19  
<212> PRT  
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<400> 108  
Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala Pro  
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Val Lys Gly

<210> 109  
<211> 12  
<212> PRT  
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<400> 109  
Gly Met Ile Thr Phe Gly Gly Ala Met Phe Asp Phe  
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<210> 110  
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<400> 110  
Gly Tyr Thr Phe Asn Asp Tyr Tyr Met His  
1 5 10

<210> 111  
<211> 17  
<212> PRT  
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<400> 111  
Trp Ile His Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe Gln  
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Gly

<210> 112  
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<212> PRT  
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<400> 112  
Asp Arg Asp Thr Ala Met Val Phe Tyr Tyr Tyr Tyr Tyr Ala Met Asp  
1 5 10 15  
Val

<210> 113  
<211> 10  
<212> PRT  
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<400> 113  
Gly Phe Thr Phe Arg Ser Tyr Gly Met His  
1 5 10

<210> 114  
<211> 17

<212> PRT  
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 <400> 114  
 Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 115  
 <211> 8  
 <212> PRT  
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<400> 115  
 Gly Val Tyr Gly Asp Phe Asp Tyr  
 1 5

<210> 116  
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 <212> PRT  
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<400> 116  
 Gly Phe Thr Phe Ser Asn Tyr Gly Met His  
 1 5 10

<210> 117  
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 <212> PRT  
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<400> 117  
 Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 118  
 <211> 9  
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<400> 118  
 Arg Asp Trp Asn Tyr Gly Met Asp Val  
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<210> 119  
 <211> 10  
 <212> PRT  
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<400> 119

Gly Tyr Thr Phe Thr Asp Tyr Tyr Met His  
1 5 10

<210> 120

<211> 17

<212> PRT

<213> Homo sapiens

<400> 120

Trp Ile Ser Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe Gln  
1 5 10 15  
Gly

<210> 121

<211> 17

<212> PRT

<213> Homo sapiens

<400> 121

Asp Arg Asp Thr Ala Met Val Phe Tyr Tyr Tyr Tyr Tyr Ala Met Asp  
1 5 10 15  
Val

<210> 122

<211> 10

<212> PRT

<213> Homo sapiens

<400> 122

Gly Phe Thr Phe Ser Ser Tyr Gly Met His  
1 5 10

<210> 123

<211> 17

<212> PRT

<213> Homo sapiens

<400> 123

Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 124

<211> 16

<212> PRT

<213> Homo sapiens

<400> 124

Gln Gly Ile Ala Ala Arg Arg Asn Tyr Tyr Tyr Ser Gly Met Asp Val  
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<210> 125  
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<400> 125  
 Gly Tyr Thr Phe Thr Ser Tyr Asp Ile Asn  
 1 5 10

<210> 126  
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 <212> PRT  
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<400> 126  
 Trp Met Asp Pro Asn Ser Gly His Thr Gly Tyr Ala Gln Lys Phe Gln  
 1 5 10 15  
 Gly

<210> 127  
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 <212> PRT  
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<400> 127  
 Glu Gly Asn Trp Gly Ser Phe Asp Tyr  
 1 5

<210> 128  
 <211> 10  
 <212> PRT  
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<400> 128  
 Gly Tyr Ser Phe Thr Asn Tyr Trp Ile Gly  
 1 5 10

<210> 129  
 <211> 17  
 <212> PRT  
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<400> 129  
 Phe Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Glu  
 1 5 10 15  
 Gly

<210> 130  
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<400> 130  
 His Thr Gly Ala Leu Asp Tyr  
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<210> 131  
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 <212> PRT  
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<400> 131  
 Gly Ile Thr Phe Ser Ser Tyr Gly Met His  
 1 5 10

<210> 132  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 132  
 Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Val Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 133  
 <211> 9  
 <212> PRT  
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<400> 133  
 Arg Gly Pro Leu Tyr Ala Phe Asp Ile  
 1 5

<210> 134  
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 <212> PRT  
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<220>  
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 <222> 101, 102  
 <223> Xaa = Any Amino Acid

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 1 5 10 15  
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr



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Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
	35		40		45										
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50		55		60										
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65			70		75									80	
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85		90									95	
Ala	Arg	Gly	Gly	Xaa	Xaa	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr	Met
	100		105		110										
Val	Thr	Val	Ser	Ser	Ala										
	115														

<210> 135  
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<220>  
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 <223> Xaa = Any Amino Acid

	135														
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Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr
	20		25		30										
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
	35		40		45										
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50		55		60										
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65			70		75									80	
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85		90									95	
Ala	Arg	Ser	Ser	Ser	Xaa	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr	Met
	100		105		110										
Val	Thr	Val	Ser	Ser	Ala										
	115														

<210> 136  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 99, 100, 103, 104, 105  
 <223> Xaa = Any Amino Acid

	136														
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1		5		10		15									

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
                   20                  25                  30  
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
                   35                  40                  45  
 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val  
                   50                  55                  60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
                   65                  70                  75                  80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                   85                  90                  95  
 Ala Arg Xaa Xaa Thr Gly Xaa Xaa Xaa Ala Phe Asp Ile Trp Gly Gln  
                   100                  105                  110  
 Gly Thr Met Val Thr Val Ser Ser Ala  
                   115                  120

<210> 137  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 99, 100  
 <223> Xaa = Any Amino Acid

<400> 137  
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
   1                  5                  10                  15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
                   20                  25                  30  
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
                   35                  40                  45  
 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val  
                   50                  55                  60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
                   65                  70                  75                  80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                   85                  90                  95  
 Ala Arg Xaa Xaa Trp Asn Tyr Ala Phe Asp Ile Trp Gly Gln Gly Thr  
                   100                  105                  110  
 Met Val Thr Val Ser Ser Ala  
                   115

<210> 138  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 99, 100, 102  
 <223> Xaa = Any Amino Acid

<400> 138  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu

1				5					10					15			
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr		
			20					25					30				
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met		
		35					40					45					
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe		
	50					55					60						
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr		
65					70				75						80		
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys		
			85					90					95				
Ala	Arg	Xaa	Xaa	Leu	Xaa	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val		
		100						105					110				
Thr	Val	Ser	Ser	Ala													
		115															

<210> 139  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 101  
 <223> Xaa = Any Amino Acid

<400> 139																	
Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu		
1				5					10				15				
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr		
			20					25					30				
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met		
		35					40					45					
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe		
	50					55					60						
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr		
65					70				75						80		
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys		
			85					90					95				
Ala	Arg	Ser	Trp	Xaa	Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr		
		100						105					110				
Val	Thr	Val	Ser	Ser	Ala												
		115															

<210> 140  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 99  
 <223> Xaa = Any Amino Acid

<400> 140

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr
			20					25					30		
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Xaa	Trp	Cys	Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr
			100					105					110		
Val	Thr	Val	Ser	Ser	Ala										
			115												

<210> 141  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 97, 98, 102  
 <223> Xaa = Any Amino Acid

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr
			20					25					30		
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85					90					95		
Xaa	Xaa	Thr	Gly	Thr	Xaa	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr	Met
			100					105					110		
Val	Thr	Val	Ser	Ser	Ala										
			115												

<210> 142  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 99, 100  
 <223> Xaa = Any Amino Acid

<400> 142  
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30  
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Xaa Xaa Thr Ile Phe Gly Val Ile Asp Tyr Trp Gly Gln  
 100 105 110  
 Gly Thr Leu Val Thr Val Ser Ser Ala  
 115 120

<210> 143  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 99, 100  
 <223> Xaa = Any Amino Acid

<400> 143  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu  
 1 5 10 15  
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr  
 20 25 30  
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
 50 55 60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
 65 70 75 80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95  
 Ala Arg Xaa Xaa Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr  
 100 105 110  
 Val Thr Val Ser Ser Ala  
 115

<210> 144  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 99, 100, 101  
 <223> Xaa = Any Amino Acid

<400> 144  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu  
 1 5 10 15  
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr  
 20 25 30  
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
 50 55 60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
 65 70 75 80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95  
 Ala Arg Xaa Xaa Xaa Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val  
 100 105 110  
 Thr Val Ser Ser Ala  
 115

<210> 145  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 145  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu  
 1 5 10 15  
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr  
 20 25 30  
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
 50 55 60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
 65 70 75 80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95  
 Ala Arg His Ser Gly Ser Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu  
 100 105 110  
 Val Thr Val Ser Ser Ala  
 115

<210> 146  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 146  
 Arg Ala Ser Gln Ser Val Ser Ser Arg Tyr Leu Ala  
 1 5 10

<210> 147  
 <211> 7  
 <212> PRT

<213> Homo sapiens

<400> 147

Gly Ala Ser Ser Arg Ala Thr  
1 5

<210> 148

<211> 9

<212> PRT

<213> Homo sapiens

<400> 148

Gln Gln Tyr Gly Ser Ser Gln Ile Thr  
1 5

<210> 149

<211> 11

<212> PRT

<213> Homo sapiens

<400> 149

Arg Ala Ser Gln Gly Ile Ser Asn Asp Leu Ala  
1 5 10

<210> 150

<211> 7

<212> PRT

<213> Homo sapiens

<400> 150

Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 151

<211> 9

<212> PRT

<213> Homo sapiens

<400> 151

Leu Gln His Asn Ser Tyr Pro Leu Thr  
1 5

<210> 152

<211> 11

<212> PRT

<213> Homo sapiens

<400> 152

Arg Ala Ser Gln Gly Ile Arg Asn Asp Leu Gly  
1 5 10

<210> 153  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 153  
Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 154  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 154  
Leu Gln His Asn Ile Tyr Pro Leu Thr  
1 5

<210> 155  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 155  
Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu  
1 5 10 15  
Thr

<210> 156  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 156  
Trp Ala Ser Thr Arg Glu Ser  
1 5

<210> 157  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 157  
Gln Gln Tyr Tyr Ser Thr Pro Arg Thr  
1 5

<210> 158  
<211> 12  
<212> PRT  
<213> Homo sapiens



<400> 158  
Arg Ala Ser Gln Ser Val Ser Ser Arg Tyr Leu Ala  
1 5 10

<210> 159  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 159  
Gly Ala Ser Ser Arg Ala Ala  
1 5

<210> 160  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 160  
Gln Gln Cys Asp Tyr Ser Pro Pro Cys Ser  
1 5 10

<210> 161  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 161  
Arg Ala Ser Gln Ser Val Arg Lys Ser Tyr Leu Ala  
1 5 10

<210> 162  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 162  
Gly Ala Ser Ser Arg Ala Thr  
1 5

<210> 163  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 163  
Gln Gln Tyr Asp Tyr Ser Pro Ile Thr  
1 5

<210> 164  
<211> 17

<212> PRT  
<213> Homo sapiens

<400> 164  
Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu  
1 5 10 15  
Ala

<210> 165  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 165  
Trp Ala Ser Thr Arg Glu Ser  
1 5

<210> 166  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 166  
Gln Gln Tyr Tyr Ser Thr Pro Arg Thr  
1 5

<210> 167  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 167  
Arg Ser Ser Gln Ser Leu Leu Gln Ser Asn Gly Tyr Lys Tyr Leu Glu  
1 5 10 15

<210> 168  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 168  
Leu Gly Ser Asn Arg Ala Ser  
1 5

<210> 169  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 169  
Met Gln Ala Leu Gln Thr Pro Leu Thr

1 5

<210> 170  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 170  
 Arg Ala Ser Gln Ser Val Ser Ser Asn Leu Ala  
 1 5 10

<210> 171  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 171  
 Gly Ala Ser Thr Arg Ala Thr  
 1 5

<210> 172  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 172  
 Gln Gln Tyr Asn Asn Trp Pro Pro Cys Ser  
 1 5 10

<210> 173  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 173  
 Arg Ala Ser Gln Ser Val Ser Arg Ile Leu Ala  
 1 5 10

<210> 174  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 174  
 Gly Ala Ser Thr Arg Ala Thr  
 1 5

<210> 175  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 175  
Gln Gln Tyr His Asn Trp Pro Ile Thr  
1 5

<210> 176  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 176  
Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp  
1 5 10 15

<210> 177  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 177  
Leu Gly Ser Asn Arg Ala Ser  
1 5

<210> 178  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 178  
Met Gln Ala Leu Gln Thr Pro Phe Thr  
1 5

<210> 179  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 179  
Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn  
1 5 10

<210> 180  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 180  
Asp Ala Ser Asn Leu Glu Thr  
1 5

<210> 181

<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 181  
Gln Gln Tyr Asp Asn Leu Pro Ile Thr  
1 5

<210> 182  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 182  
Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Tyr Phe Leu  
1 5 10 15  
Ala

<210> 183  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 183  
Trp Ala Ser Thr Arg Glu Ser  
1 5

<210> 184  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 184  
Gln Gln Tyr Tyr Ser Ser Pro Trp Thr  
1 5

<210> 185  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 185  
Lys Ser Ser Gln Ser Val Leu Tyr Arg Ser Asn Asn Lys Asn Phe Leu  
1 5 10 15  
Ala

<210> 186  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 186  
Trp Ala Ser Thr Arg Glu Ser  
1 5

<210> 187  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 187  
Gln Gln His Tyr Ser Ile Pro Leu Thr  
1 5

<210> 188  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 188  
Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu  
1 5 10 15  
Ala

<210> 189  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 189  
Trp Ala Ser Thr Arg Asp Ser  
1 5

<210> 190  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 190  
Gln Gln Tyr Tyr Ser Thr Pro Arg Thr  
1 5

<210> 191  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 191  
Arg Ala Ser Gln Gly Ile Arg Asn Asp Leu Ala  
1 5 10

<210> 192  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 192  
Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 193  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 193  
Leu Gln His Asn Ser Tyr Pro Pro Thr  
1 5

<210> 194  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 194  
Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala  
1 5 10

<210> 195  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 195  
Gly Ala Ser Ser Arg Ala Thr  
1 5

<210> 196  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 196  
Gln His Tyr Gly Ser Leu Pro Pro Cys Ser  
1 5 10

<210> 197  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 197

Lys Ser Ser Gln Ser Leu Leu Tyr Ser Asp Gly Lys Thr Tyr Leu Tyr  
1 5 10 15

<210> 198  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 198  
Glu Val Ser Asn Arg Phe Ser  
1 5

<210> 199  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 199  
Met Gln Ser Ile Gln Leu Pro Leu Thr  
1 5

<210> 200  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 200  
Lys Ser Ser Gln Ser Val Leu Phe Arg Ser Asn Asn Arg Asn Tyr Leu  
1 5 10 15  
Ala

<210> 201  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 201  
Trp Ala Ser Thr Arg Glu Ser  
1 5

<210> 202  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 202  
Gln Gln Tyr Tyr Ser Ile Pro Arg Thr  
1 5

<210> 203



<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 203  
Lys Ser Ser Gln Ser Leu Leu His Ser Asp Gly Lys Thr Tyr Leu Tyr  
1 5 10 15

<210> 204  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 204  
Glu Val Ser Asn Arg Phe Ser  
1 5

<210> 205  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 205  
Met Gln Ser Ile Gln Leu Pro Leu Thr  
1 5

<210> 206  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 206  
Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp  
1 5 10 15

<210> 207  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 207  
Leu Gly Ser Asn Arg Ala Ser  
1 5

<210> 208  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 208  
Met Gln Ala Leu Gln Thr Ile Thr  
1 5

<210> 209  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 209  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr  
 20 25 30  
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
 35 40 45  
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ile  
 85 90 95  
 Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg  
 100 105

<210> 210  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 210  
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly  
 1 5 10 15  
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser  
 20 25 30  
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
 35 40 45  
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
 50 55 60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu  
 65 70 75 80  
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro  
 85 90 95  
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg  
 100 105

<210> 211  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 211  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp  
 20 25 30  
 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile

	35					40				45						
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	
	50					55					60					
Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	
65					70					75					80	
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	His	Asn	Ser	Tyr	Pro	Pro	
				85					90					95		
Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg					
			100					105								

<210> 212  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 212																
Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly	
1				5					10					15		
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	Ser	
			20					25					30			
Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	Ser	
		35					40					45				
Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val	Pro	
	50					55				60						
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile	
65					70					75					80	
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Ala	
			85					90						95		
Leu	Gln	Thr	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	
			100					105					110			
Arg																

<210> 213  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 213																
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Ser	Leu	Ser	Pro	Gly	
1				5					10					15		
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser	Val	Ser	Ser	Ser	
			20					25					30			
Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	
		35					40					45				
Ile	Tyr	Gly	Ala	Ser	Ser	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser	
	50					55					60					
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Arg	Leu	Glu	
65					70					75					80	
Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Gly	Ser	Ser	Pro	
			85					90						95		
Pro	Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg			
			100					105					110			

<210> 214  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 214  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr  
 20 25 30  
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
 35 40 45  
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Pro  
 85 90 95  
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg  
 100 105

<210> 215  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 215  
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly  
 1 5 10 15  
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser  
 20 25 30  
 Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser  
 35 40 45  
 Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro  
 50 55 60  
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile  
 65 70 75 80  
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala  
 85 90 95  
 Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg  
 100 105 110

<210> 216  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 43, 44, 45, 46  
 <223> Xaa = Any Amino Acid

<400> 216  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15

Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser	Tyr
			20					25					30		
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Xaa	Xaa	Xaa	Xaa	Pro	Lys
		35					40					45			
Leu	Leu	Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg
		50				55					60				
Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser
65					70					75					80
Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser
				85					90					95	
Thr	Pro	Pro	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg	
			100					105					110		

<210> 217  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr
			20					25					30		
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35				40						45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Trp	Gly	Gln	Gly	Thr	Met	Val	Thr	Val	Ser	Ser	Ala		
			100					105					110		

<210> 218  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Ile	Ser	Tyr
			20					25					30		
Trp	Ile	Ala	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35				40						45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Ala	Arg	Tyr	Ser	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Thr	Thr	Gln	Asp	Thr	Met	Val	Thr	Val	Ser	Ser	Ala		
			100					105					110		

<210> 219  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 219  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu  
 1 5 10 15  
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Asn Phe Ile Thr Tyr  
 20 25 30  
 Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45  
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
 50 55 60  
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
 65 70 75 80  
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95  
 Ala Leu Trp Gly Gln Arg Thr Met Glu Thr Val Ser Ser Ala  
 100 105 110

<210> 220  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 44, 45, 46  
 <223> Xaa = Any Amino Acid

<400> 220  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr  
 20 25 30  
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Xaa Xaa Xaa Pro Lys  
 35 40 45  
 Leu Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg  
 50 55 60  
 Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser  
 65 70 75 80  
 Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser  
 85 90 95  
 Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg  
 100 105 110

<210> 221  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT

<222> 44, 45, 46

<223> Xaa = Any Amino Acid

<400> 221

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5				10						15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser	Tyr
			20					25					30		
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Xaa	Xaa	Xaa	Pro	Lys
	35					40					45				
Leu	Leu	Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg
	50					55					60				
Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser
65					70				75						80
Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Asn
				85				90						95	
Thr	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	
			100					105						110	

<210> 222

<211> 111

<212> PRT

<213> Homo sapiens

<400> 222

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5				10						15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Gly	Ser	Tyr
			20					25					30		
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Pro	Gly	Lys	Gly	Pro	Lys
	35					40					45				
Leu	Leu	Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Thr	Gly	Val	Pro	Ser	Arg
	50					55					60				
Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser
65					70				75						80
Leu	Arg	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Phe	Asn
				85				90						95	
Thr	Pro	Pro	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg	
			100					105						110	